15 November 2000

ELSEVIER

Optics Communications 185 (2000) 501–508

OPTICS COMMUNICATIONS

www.elsevier.com/locate/optcom

Author index to volume 185

Al-Shamma'a, A., see Wright, C.C. 185 (2000) 387
Alekseev, V.A., see Krylova, D.D. 185 (2000) 343
Aleshkevich, V., Y. Kartashov and V. Vysloukh, Cnoidal waves compression by means of multisoliton effect 185 (2000) 305
Arsenault, H.H., see Garcia-Martinez, P. 185 (2000) 41
Aruga, T., see Oya, S. 185 (2000) 239

Bêche, B., E. Gaviot, N. Grossard and H. Porte, A tunable filter with electrooptical TE–TM mode conversion in a GaAs/AlAs multiquantum-well waveguide 185 (2000) 325
Balzer, F. and H.-G. Rubahn, Interference effects in the optical second harmonic generation from ultrathin alkali films 185 (2000) 493
Bang, O., see Torner, L. 185 (2000) 479
Barmenkov, Yu.O., see Martínez-Rios, A. 185 (2000) 95
Barnes, T.H., see Somervell, A.R.D. 185 (2000) 49
Barrington, S.J., T. Bhutta, D.P. Shepherd and R.W. Eason, The effect of particulate density on performance of Nd:$Gd_3Ga_5O_{12}$ waveguide lasers grown by pulsed laser deposition 185 (2000) 145
Bertolotti, M., see Fazio, E. 185 (2000) 331
Besnard, P., see Gabet, R. 185 (2000) 109
Bhutta, T., see Barrington, S.J. 185 (2000) 145
Bittner, R., see Steckman, G.J. 185 (2000) 13
Blanche, P.-A., Ph.C. Lemaire, C. Maertens, P. Dubois and R. Jérôme, Polarization holography reveals the nature of the grating in polymers containing azo-dye 185 (2000) 1
Bolognini, Né., see Tebaldi, M. 185 (2000) 65
Bondiou, M., see Gabet, R. 185 (2000) 109
Bryngdahl, O., see Schreier, F. 185 (2000) 227

Cai, L.Z., Special affine Fourier transformation in frequency-domain 185 (2000) 271
Calvez, S., see Rejeaunier, X. 185 (2000) 375
Campos, J., see Vargas, A. 185 (2000) 33
Canning, J., M.A. van Eijkelenborg, T. Ryan, M. Kristensen and K. Lyytikainen, Complex mode coupling within air–silica structured optical fibres and applications 185 (2000) 321
Cardoso, G.C. and J.W.R. Tabosa, Four-wave mixing in dressed cold cesium atoms 185 (2000) 353
Carrera, A., see Fazio, E. 185 (2000) 331
Cartwright, C.M., see Zhang, H. 185 (2000) 277

PII: S0030-4018(00)01068-3

Cervantes, M.A., A.A. Lipovka and M.M. Tavares, Circular aperture diffraction of multiple interfering beams 185 (2000) 233
Cha, Y.H., K.H. Hong and C.H. Nam, Incorporation of a cavity-dumped oscillator in a long-wavelength injected femtosecond terawatt Ti:sapphire laser 185 (2000) 413
Chan, K.T., see Li, Z. 185 (2000) 381
Chan, Y.C., see Jiang, H.J. 185 (2000) 19
Chiaretti, G., see Fazio, E. 185 (2000) 331
Chuang, T.J., see Lee, J.-H. 185 (2000) 393
Chung, Y., see Kim, C.-S. 185 (2000) 337
Cipparrone, G., A. Mazzulla and P. Pagliusi, Spatial periodicity of photorefractive orientational gratings in dye-doped polymer–liquid crystal composite 185 (2000) 171
Cywiak, M., see Murakowski, J. 185 (2000) 295

Dai, W., see Ye, Y. 185 (2000) 315
de Valcárcel, G.J., see Prati, F. 185 (2000) 153
Ding, M.S., see Zhang, H. 185 (2000) 277
Domokos, P., M. Gangl and H. Ritsch, Single-atom detection in high-Q multimode cavities 185 (2000) 115
Drexler, W., see Fercher, A.F. 185 (2000) 57
Driben, R. and B.A. Malomed, Split-step solitons in long fiber links 185 (2000) 439
Dubois, P., see Blanche, P.-A. 185 (2000) 1
Dussardier, B., see Saïssy, A. 185 (2000) 407

Eason, R.W., see Barrington, S.J. 185 (2000) 145
Enrique Rueda, P.J., see Tebaldi, M. 185 (2000) 65

Fan, L., see Wu, L. 185 (2000) 221
Fazio, E., M. Zitelli, M. Bertolotti, A. Carrera, N.G. Sanvito and G. Chiaretti, Solitonic waveguiding in planar glass structures 185 (2000) 331
Feng, F., see Ye, Y. 185 (2000) 315
Fercher, A.F., C.K. Hitzenberger, M. Sticker, E. Moreno-Barriuso, R. Leitgeb, W. Drexler and H. Sattmann, A thermal light source technique for optical coherence tomography 185 (2000) 57
Ferraro, P., see Nicola, S.D. 185 (2000) 285
Ferreira, C., see Garcia-Martinez, P. 185 (2000) 41
Filippov, V.N., see Martínez-Rios, A. 185 (2000) 95
Fish, D.A., see Powell, A.K. 185 (2000) 203
Fujita, K., see Matsuoka, N. 185 (2000) 467

Gabet, R., G.M. Stéphan, M. Bondiou, P. Besnard and D. Kilper, Ultrahigh sensitivity detector for coherent light: the laser 185 (2000) 109
Ganeev, R.A., A.I. Ryasnyansky, M.K. Kodirov and T. Usmanov, Nonlinear optical characteristics of C_{60} and C_{70} films and solutions 185 (2000) 473
Gangl, M., see Domokos, P. 185 (2000) 115
Gao, Y., see Li, Z. 185 (2000) 381

Garcia-Martinez, P., H.H. Arsenault and C. Ferreira, Improved rotation invariant pattern recognition using circular harmonics of binary gray level slices 185 (2000) 41
Gaviot, E., see Bêche, B. 185 (2000) 325
Gillespie, W.A., see Zhang, H. 185 (2000) 277
Gladkova, I., see Manassah, J.T. 185 (2000) 125
Goedgebuer, J.P., see Rejeaunier, X. 185 (2000) 375
Grossard, N., see Bêche, B. 185 (2000) 325
Guo, Y., see Ye, Y. 185 (2000) 315

Haist, T., see Liesener, J. 185 (2000) 77
Han, Y., see Kim, C.-S. 185 (2000) 337
Han, W.-T., see Kim, C.-S. 185 (2000) 337
Harrison, R.G., see Kovalev, V.I. 185 (2000) 185
Haskell, T.G., see Somervell, A.R.D. 185 (2000) 49
Hirao, K., see Matsuoka, N. 185 (2000) 467
Hitzenberger, C.K., see Fercher, A.F. 185 (2000) 57
Hong, K.H., see Cha, Y.H. 185 (2000) 413
Huang, C.H., see Liu, W. 185 (2000) 191
Huo, X., see Ye, Y. 185 (2000) 315

Jérôme, R., see Blanche, P.-A. 185 (2000) 1
Jarutis, V., A. Matijošius, V. Smilgevičius and A. Stabinis, Second harmonic generation of higher-order Bessel beams 185 (2000) 159
Jasapara, J., see Zeller, J. 185 (2000) 133
Jiang, H.J., X.-C. Yuan, Y. Zhou, Y.C. Chan and Y.L. Lam, Single-step fabrication of diffraction gratings on hybrid sol–gel glass using holographic interference lithography 185 (2000) 19
Jindal, R., see Saïssy, A. 185 (2000) 407

Kamanina, N.V., L.N. Kaporskii, V.N. Sizov and D.I. Staselko, Holographic recording in thin C_{70}-doped polymer organic films 185 (2000) 363
Kaporskii, L.N., see Kamanina, N.V. 185 (2000) 363
Kartashov, Y., see Aleshkevich, V. 185 (2000) 305
Kato, S., see Takahashi, E. 185 (2000) 431
Kilper, D., see Gabet, R. 185 (2000) 109
Kim, C.-S., Y. Han, B.H. Lee, W.-T. Han, U.-C. Paek and Y. Chung, Induction of the refractive index change in B-doped optical fibers through relaxation of the mechanical stress 185 (2000) 337
Kitaoka, K., see Matsuoka, N. 185 (2000) 467
Kodirov, M.K., see Ganeev, R.A. 185 (2000) 473
Konopsky, V.N., Operation of scanning plasmon near-field microscope with gold and silver tips in tapping mode: demonstration of subtip resolution 185 (2000) 83
Kovalev, V.I., R.G. Harrison and A.M. Scott, The build-up of stimulated Brillouin scattering excited by pulsed pump radiation in a long optical fibre 185 (2000) 185
Kristensen, M., see Canning, J. 185 (2000) 321

Krylova, D.D. and V.A. Alekseev, Method of extraction of hyperfine structure influence on methane line ($\lambda = 3.39$ μm) used in optical frequency standards 185 (2000) 343
Kuwahara, K., see Takahashi, E. 185 (2000) 431

Lam, Y.L., see Jiang, H.J. 185 (2000) 19
Lee, J.-H., C.C. Yang, M.C. Shih and T.J. Chuang, All-optical switching with pulsed signals in an all-semiconductor-optical-amplifier loop device 185 (2000) 393
Lee, B.H., see Kim, C.-S. 185 (2000) 337
Lee, C.-Y., see Powell, A.K. 185 (2000) 203
Leitgeb, R., see Fercher, A.F. 185 (2000) 57
Lemaire, Ph.C., see Blanche, P.-A. 185 (2000) 1
Levoshkin, A., A. Petrov and J.E. Montagne, High-efficiency diode-pumped Q-switched Yb:Er:glass laser 185 (2000) 399
Li, Z., C. Lou, Y. Gao and K.T. Chan, A dual-wavelength and dual-repetition-rate actively mode-locked fiber ring laser 185 (2000) 381
Liesener, J., M. Reicherter, T. Haist and H.J. Tiziani, Multi-functional optical tweezers using computer-generated holograms 185 (2000) 77
Lin, Q. and L. Wang, Collins formula and tensor *ABCD* law in spatial-frequency domain 185 (2000) 263
Lin, W.X., see Liu, W. 185 (2000) 191
Lipovka, A.A., see Cervantes, M.A. 185 (2000) 233
Liu, W., H.Y. Shen, G.F. Zhang, D.Y. Zhang, G. Zhang, W.X. Lin, R.R. Zeng and C.H. Huang, Studies on the phase-matching condition and the cut-off wavelength of Nb:$KTiOPO_4$ crystal 185 (2000) 191
Liu, C., T. Weigel and G. Schweiger, Structural resonances in a dielectric sphere on a dielectric surface illuminated by an evanescent wave 185 (2000) 249
Lou, C., see Li, Z. 185 (2000) 381
Lucas, J., see Wright, C.C. 185 (2000) 387
Lyytikainen, K., see Canning, J. 185 (2000) 321

Maertens, C., see Blanche, P.-A. 185 (2000) 1
Malomed, B.A., see Driben, R. 185 (2000) 439
Manassah, J.T. and I. Gladkova, Modifications due to local field corrections of the electromagnetically induced transparency propagation parameters in a driven optically dense three-level cascade system 185 (2000) 125
Martínez-Rios, A., A.N. Starodumov, V.N. Filippov, Yu.O. Barmenkov and I. Torres-Gomez, Raman effect contribution to cross-phase modulation in nonpolarization-preserving fibers 185 (2000) 95
Martel, G., C. Ozkül and F. Sanchez, Experimental and theoretical evidence of pump-saturation effects in low power end-pumped Nd:YVO_4 microchip laser 185 (2000) 419
Matijošius, A., see Jarutis, V. 185 (2000) 159
Matin, M.A., see Qian, L. 185 (2000) 487
Matsumoto, Y., see Takahashi, E. 185 (2000) 431
Matsuoka, N., K. Kitaoka, J. Si, K. Fujita and K. Hirao, Second-order nonlinearity and optical image storage in phenyl-silica hybrid films doped with azo-dye chromophore using optical poling technique 185 (2000) 467

Matsushima, I., see Takahashi, E. 185 (2000) 431
Mazzulla, A., see Cipparrone, G. 185 (2000) 171
Meerholz, K., see Steckman, G.J. 185 (2000) 13
Mollier, P., see Rejeaunier, X. 185 (2000) 375
Monnom, G., see Saïssy, A. 185 (2000) 407
Montagne, J.E., see Levoshkin, A. 185 (2000) 399
Moreno-Barriuso, E., see Fercher, A.F. 185 (2000) 57
Muradyan, N.T., Phase-space four stability in the cascaded parametric down-conversion 185 (2000) 369
Murakowski, J., M. Cywiak, B. Rosner and D. van der Weide, Far field optical imaging with subwavelength resolution 185 (2000) 295
Murti, Y.V.G.S., see Nandakumar, P. 185 (2000) 457

Nam, C.H., see Cha, Y.H. 185 (2000) 413
Nandakumar, P., C. Vijayan and Y.V.G.S. Murti, Quantum size effects on the third order optical nonlinearity of CdS quantum dots in Nafion 185 (2000) 457
Navarro, R., see Vargas, A. 185 (2000) 33
Nicola, S.D. and P. Ferraro, Fringe projection based on Moiré method for measuring aberration of axially symmetric optics 185 (2000) 285
Noack, F., see Rotermund, F. 185 (2000) 177

O'Neil, A.T. and M.J. Padgett, Three-dimensional optical confinement of micron-sized metal particles and the decoupling of the spin and orbital angular momentum within an optical spanner 185 (2000) 139
Okuda, I., see Takahashi, E. 185 (2000) 431
Owadano, Y., see Takahashi, E. 185 (2000) 431
Oya, S. and T. Aruga, Exclusively binarized correlation-calculation method for measuring random pattern movement 185 (2000) 239
Ozkül, C., see Martel, G. 185 (2000) 419

Padgett, M.J., see O'Neil, A.T. 185 (2000) 139
Paek, U.-C., see Kim, C.-S. 185 (2000) 337
Pagliusi, P., see Cipparrone, G. 185 (2000) 171
Pessina, E.M., see Prati, F. 185 (2000) 153
Petrov, A., see Levoshkin, A. 185 (2000) 399
Petrov, V., see Rotermund, F. 185 (2000) 177
Pinkney, H., see Qian, L. 185 (2000) 487
Pohit, M., see Unnikrishnan, G. 185 (2000) 25
Porte, H., see Rejeaunier, X. 185 (2000) 375
Porte, H., see Bèche, B. 185 (2000) 325
Powell, A.K., C.-Y. Lee and D.A. Fish, General scattering matrix solutions to vector four wave mixing 185 (2000) 203
Prati, F., E.M. Pessina, G.J. de Valcárcel and E. Roldán, Lorenz–Haken instability in a laser with arbitrary mirrors reflectivity 185 (2000) 153
Psaltis, D., see Steckman, G.J. 185 (2000) 13

Qian, L., P.W.E. Smith, M.A. Matin, H. Pinkney, B.J. Robinson and D.A. Thompson, Ultrafast carrier dynamics in InGaAsP grown by He-plasma-assisted epitaxy 185 (2000) 487
Qin, T., see Ye, Y. 185 (2000) 315

Reicherter, M., see Liesener, J. 185 (2000) 77
Rejeaunier, X., S. Calvez, P. Mollier, H. Porte and J.P. Goedgebuer, A tunable mode-locked erbium-doped fibre laser using a Lyot-type tuner integrated in lithium niobate 185 (2000) 375
Ritsch, H., see Domokos, P. 185 (2000) 115
Riza, N.A. and S. Sumriddetchkajorn, Fault-tolerant variable fiber-optic attenuator using three-dimensional beam spoiling 185 (2000) 103
Robinson, B.J., see Qian, L. 185 (2000) 487
Roldán, E., see Prati, F. 185 (2000) 153
Rosner, B., see Murakowski, J. 185 (2000) 295
Rotermund, F., V. Petrov and F. Noack, Difference-frequency generation of intense femtosecond pulses in the mid-IR (4–12 μm) using $HgGa_2S_4$ and $AgGaS_2$ 185 (2000) 177
Rubahn, H.-G., see Balzer, F. 185 (2000) 493
Rudolph, W., see Zeller, J. 185 (2000) 133
Ryan, T., see Canning, J. 185 (2000) 321
Ryasnyansky, A.I., see Ganeev, R.A. 185 (2000) 473

Saïssy, A., B. Dussardier, G. Monnom and R. Jindal, Modal contribution to the polarization dependent gain constant in Er^{3+}-doped fiber 185 (2000) 407
Sanchez, F., see Martel, G. 185 (2000) 419
Sanvito, N.G., see Fazio, E. 185 (2000) 331
Sattmann, H., see Fercher, A.F. 185 (2000) 57
Schreier, F. and O. Bryngdahl, Femtosecond pulse shaping with a stratified diffractive structure 185 (2000) 227
Schweiger, G., see Liu, C. 185 (2000) 249
Scott, A.M., see Kovalev, V.I. 185 (2000) 185
She, S., see Wu, L. 185 (2000) 221
Sheik-Bahae, M., see Zeller, J. 185 (2000) 133
Shen, H.Y., see Liu, W. 185 (2000) 191
Shepherd, D.P., see Barrington, S.J. 185 (2000) 145
Shih, M.C., see Lee, J.-H. 185 (2000) 393
Si, J., see Matsuoka, N. 185 (2000) 467
Singh, K., see Unnikrishnan, G. 185 (2000) 25
Sizov, V.N., see Kamanina, N.V. 185 (2000) 363
Smilgevičius, V., see Jarutis, V. 185 (2000) 159
Smith, P.W.E., see Qian, L. 185 (2000) 487
Somervell, A.R.D., C.Y. Wu, T.G. Haskell and T.H. Barnes, All-optical image transmission through a multimode dielectric waveguide 185 (2000) 49
Stéphan, G.M., see Gabet, R. 185 (2000) 109
Stabinis, A., see Jarutis, V. 185 (2000) 159
Starodumov, A.N., see Martínez-Rios, A. 185 (2000) 95
Staselko, D.I., see Kamanina, N.V. 185 (2000) 363

Steckman, G.J., R. Bittner, K. Meerholz and D. Psaltis, Holographic multiplexing in photorefractive polymers 185 (2000) 13
Sticker, M., see Fercher, A.F. 185 (2000) 57
Stuart, R.A., see Wright, C.C. 185 (2000) 387
Sumriddetchkajorn, S., see Riza, N.A. 185 (2000) 103

Tabosa, J.W.R., see Cardoso, G.C. 185 (2000) 353
Takahashi, E., K. Kuwahara, Y. Matsumoto, I. Okuda, I. Matsushima, S. Kato and Y. Owadano, High-intensity short KrF laser-pulse generation by saturated amplification of truncated leading-edge pulse 185 (2000) 431
Tavares, M.M., see Cervantes, M.A. 185 (2000) 233
Tebaldi, M., P.J. Enrique Rueda and N. Bolognini, Talbot interferometer based on a birefringence grating 185 (2000) 65
Thompson, D.A., see Qian, L. 185 (2000) 487
Tiziani, H.J., see Liesener, J. 185 (2000) 77
Torner, L., J.P. Torres and O. Bang, Robustness of quadratic solitons with periodic gain 185 (2000) 479
Torres, J.P., see Torner, L. 185 (2000) 479
Torres-Gomez, I., see Martínez-Rios, A. 185 (2000) 95

Unnikrishnan, G., M. Pohit and K. Singh, A polarization encoded optical encryption system using ferroelectric spatial light modulator 185 (2000) 25
Usmanov, T., see Ganeev, R.A. 185 (2000) 473

Vaičaitis, V., Cherenkov-type phase-matched third harmonic generation in air 185 (2000) 197
van der Weide, D., see Murakowski, J. 185 (2000) 295
van Eijkelenborg, M.A., see Canning, J. 185 (2000) 321
Vargas, A., J. Campos and R. Navarro, Invariant pattern recognition against defocus based on subband decomposition of the filter 185 (2000) 33
Vijayan, C., see Nandakumar, P. 185 (2000) 457
Vysloukh, V., see Aleshkevich, V. 185 (2000) 305

Wang, L., see Lin, Q. 185 (2000) 263
Wang, J., see Wu, L. 185 (2000) 221
Weigel, T., see Liu, C. 185 (2000) 249
Wright, C.C., R.A. Stuart, J. Lucas and A. Al-Shamma'a, Low cost undulator magnets for industrial free electron masers 185 (2000) 387
Wu, L., S. She, J. Wang and L. Fan, Amplitude-identical core field of TE_0 modes in three-layer slab waveguides with nonlinear claddings 185 (2000) 221
Wu, Y., see Wu, C. 185 (2000) 359
Wu, C. and Y. Wu, Low-temperature photoacoustic detector with fibrescope as light window 185 (2000) 359
Wu, C.Y., see Somervell, A.R.D. 185 (2000) 49

Yang, C.C., see Lee, J.-H. 185 (2000) 393
Ye, Y., H. Zhang, T. Qin, W. Dai, F. Feng, X. Huo and Y. Guo, Statistics study of routing and wavelength assignment algorithms in WDM all optical network 185 (2000) 315
Yuan, X.-C., see Jiang, H.J. 185 (2000) 19

Zeller, J., J. Jasapara, W. Rudolph and M. Sheik-Bahae, Spectro-temporal characterization of a femtosecond white-light continuum by transient-grating diffraction 185 (2000) 133
Zeng, R.R., see Liu, W. 185 (2000) 191
Zhang, D.Y., see Liu, W. 185 (2000) 191
Zhang, H., see Ye, Y. 185 (2000) 315
Zhang, G.F., see Liu, W. 185 (2000) 191
Zhang, G., see Liu, W. 185 (2000) 191
Zhang, H., C.M. Cartwright, M.S. Ding and W.A. Gillespie, Image feature extraction with various wavelet functions in a photorefractive joint transform correlator 185 (2000) 277
Zhou, Y., see Jiang, H.J. 185 (2000) 19
Zitelli, M., see Fazio, E. 185 (2000) 331

15 November 2000

OPTICS COMMUNICATIONS

ELSEVIER

Optics Communications 185 (2000) 509–513

www.elsevier.com/locate/optcom

Subject index to volume 185

Editorial Guidelines and Instructions to Authors v

Propagation and scattering

P.-A. Blanche, Ph.C. Lemaire, C. Maertens, P. Dubois and R. Jérôme, Polarization holography reveals the nature of the grating in polymers containing azo-dye 1

F. Schreier and O. Bryngdahl, Femtosecond pulse shaping with a stratified diffractive structure 227

M.A. Cervantes, A.A. Lipovka and M.M. Tavares, Circular aperture diffraction of multiple interfering beams 233

S. Oya and T. Aruga, Exclusively binarized correlation-calculation method for measuring random pattern movement 239

C. Liu, T. Weigel and G. Schweiger, Structural resonances in a dielectric sphere on a dielectric surface illuminated by an evanescent wave 249

Q. Lin and L. Wang, Collins formula and tensor *ABCD* law in spatial-frequency domain 263

Optical information, image formation and analysis, optical computing

G.J. Steckman, R. Bittner, K. Meerholz and D. Psaltis, Holographic multiplexing in photorefractive polymers 13

H.J. Jiang, X.-C. Yuan, Y. Zhou, Y.C. Chan and Y.L. Lam, Single-step fabrication of diffraction gratings on hybrid sol–gel glass using holographic interference lithography 19

G. Unnikrishnan, M. Pohit and K. Singh, A polarization encoded optical encryption system using ferroelectric spatial light modulator 25

A. Vargas, J. Campos and R. Navarro, Invariant pattern recognition against defocus based on subband decomposition of the filter 33

P. Garcia-Martinez, H.H. Arsenault and C. Ferreira, Improved rotation invariant pattern recognition using circular harmonics of binary gray level slices 41

PII S0030-4018(00)01069-5

A.R.D. Somervell, C.Y. Wu, T.G. Haskell and T.H. Barnes, All-optical image transmission through a multimode dielectric waveguide 49

A.F. Fercher, C.K. Hitzenberger, M. Sticker, E. Moreno-Barriuso, R. Leitgeb, W. Drexler and H. Sattmann, A thermal light source technique for optical coherence tomography 57

M. Tebaldi, P.J. Enrique Rueda and N. Bolognini, Talbot interferometer based on a birefringence grating 65

J. Liesener, M. Reicherter, T. Haist and H.J. Tiziani, Multi-functional optical tweezers using computer-generated holograms 77

V.N. Konopsky, Operation of scanning plasmon near-field microscope with gold and silver tips in tapping mode: demonstration of subtip resolution 83

L.Z. Cai, Special affine Fourier transformation in frequency-domain 271

H. Zhang, C.M. Cartwright, M.S. Ding and W.A. Gillespie, Image feature extraction with various wavelet functions in a photorefractive joint transform correlator 277

S.D. Nicola and P. Ferraro, Fringe projection based on Moiré method for measuring aberration of axially symmetric optics 285

J. Murakowski, M. Cywiak, B. Rosner and D. van der Weide, Far field optical imaging with subwavelength resolution 295

Optical communications

A. Martínez-Rios, A.N. Starodumov, V.N. Filippov, Yu.O. Barmenkov and I. Torres-Gomez, Raman effect contribution to cross-phase modulation in nonpolarization-preserving fibers 95

N.A. Riza and S. Sumriddetchkajorn, Fault-tolerant variable fiber-optic attenuator using three-dimensional beam spoiling 103

V. Aleshkevich, Y. Kartashov and V. Vysloukh, Cnoidal waves compression by means of multisoliton effect 305

Y. Ye, H. Zhang, T. Qin, W. Dai, F. Feng, X. Huo and Y. Guo, Statistics study of routing and wavelength assignment algorithms in WDM all optical network 315

J. Canning, M.A. van Eijkelenborg, T. Ryan, M. Kristensen and K. Lyytikainen, Complex mode coupling within air–silica structured optical fibres and applications 321

B. Bêche, E. Gaviot, N. Grossard and H. Porte, A tunable filter with electrooptical TE–TM mode conversion in a GaAs/AlAs multiquantum-well waveguide 325

E. Fazio, M. Zitelli, M. Bertolotti, A. Carrera, N.G. Sanvito and G. Chiaretti, Solitonic waveguiding in planar glass structures 331

C.-S. Kim, Y. Han, B.H. Lee, W.-T. Han, U.-C. Paek and Y. Chung, Induction of the refractive index change in B-doped optical fibers through relaxation of the mechanical stress 337

Atomic and molecular physics

R. Gabet, G.M. Stéphan, M. Bondiou, P. Besnard and D. Kilper, Ultrahigh sensitivity detector for coherent light: the laser 109

D.D. Krylova and V.A. Alekseev, Method of extraction of hyperfine structure influence on methane line ($\lambda = 3.39$ μm) used in optical frequency standards 343

G.C. Cardoso and J.W.R. Tabosa, Four-wave mixing in dressed cold cesium atoms 353

Condensed matter

C. Wu and Y. Wu, Low-temperature photoacoustic detector with fibrescope as light window 359

N.V. Kamanina, L.N. Kaporskii, V.N. Sizov and D.I. Staselko, Holographic recording in thin C_{70}-doped polymer organic films 363

Quantum optics

P. Domokos, M. Gangl and H. Ritsch, Single-atom detection in high-Q multimode cavities 115

J.T. Manassah and I. Gladkova, Modifications due to local field corrections of the electromagnetically induced transparency propagation parameters in a driven optically dense three-level cascade system 125

N.T. Muradyan, Phase-space four stability in the cascaded parametric down-conversion 369

X. Rejeaunier, S. Calvez, P. Mollier, H. Porte and J.P. Goedgebuer, A tunable mode-locked erbium-doped fibre laser using a Lyot-type tuner integrated in lithium niobate 375

Z. Li, C. Lou, Y. Gao and K.T. Chan, A dual-wavelength and dual-repetition-rate actively mode-locked fiber ring laser 381

C.C. Wright, R.A. Stuart, J. Lucas and A. Al-Shamma'a, Low cost undulator magnets for industrial free electron masers 387

J.-H. Lee, C.C. Yang, M.C. Shih and T.J. Chuang, All-optical switching with pulsed signals in an all-semiconductor-optical-amplifier loop device 393

A. Levoshkin, A. Petrov and J.E. Montagne, High-efficiency diode-pumped Q-switched Yb:Er:glass laser 399

A. Saïssy, B. Dussardier, G. Monnom and R. Jindal, Modal contribution to the polarization dependent gain constant in Er^{3+}-doped fiber 407

Y.H. Cha, K.H. Hong and C.H. Nam, Incorporation of a cavity-dumped oscillator in a long-wavelength injected femtosecond terawatt Ti:sapphire laser 413

G. Martel, C. Ozkül and F. Sanchez, Experimental and theoretical evidence of pump-saturation effects in low power end-pumped Nd:YVO_4 microchip laser 419

E. Takahashi, K. Kuwahara, Y. Matsumoto, I. Okuda, I. Matsushima, S. Kato and Y. Owadano, High-intensity short KrF laser-pulse generation by saturated amplification of truncated leading-edge pulse 431

Laser physics and laser sources

J. Zeller, J. Jasapara, W. Rudolph and M. Sheik-Bahae, Spectro-temporal characterization of a femtosecond white-light continuum by transient-grating diffraction 133

A.T. O'Neil and M.J. Padgett, Three-dimensional optical confinement of micron-sized metal particles and the decoupling of the spin and orbital angular momentum within an optical spanner 139

S.J. Barrington, T. Bhutta, D.P. Shepherd and R.W. Eason, The effect of particulate density on performance of Nd:$Gd_3Ga_5O_{12}$ waveguide lasers grown by pulsed laser deposition 145

Nonlinear optics

F. Prati, E.M. Pessina, G.J. de Valcárcel and E. Roldán, Lorenz–Haken instability in a laser with arbitrary mirrors reflectivity 153

V. Jarutis, A. Matijošius, V. Smilgevičius and A. Stabinis, Second harmonic generation of higher-order Bessel beams 159

G. Cipparrone, A. Mazzulla and P. Pagliusi, Spatial periodicity of photorefractive orientational gratings in dye-doped polymer–liquid crystal composite 171

F. Rotermund, V. Petrov and F. Noack, Difference-frequency generation of intense femtosecond pulses in the mid-IR (4–12 μm) using $HgGa_2S_4$ and $AgGaS_2$ 177

V.I. Kovalev, R.G. Harrison and A.M. Scott, The build-up of stimulated Brillouin scattering excited by pulsed pump radiation in a long optical fibre 185

W. Liu, H.Y. Shen, G.F. Zhang, D.Y. Zhang, G. Zhang, W.X. Lin, R.R. Zeng and C.H. Huang, Studies on the phase-matching condition and the cut-off wavelength of Nb:$KTiOPO_4$ crystal 191

V. Vaičaitis, Cherenkov-type phase-matched third harmonic generation in air 197

A.K. Powell, C.-Y. Lee and D.A. Fish, General scattering matrix solutions to vector four wave mixing 203

L. Wu, S. She, J. Wang and L. Fan, Amplitude-identical core field of TE_0 modes in three-layer slab waveguides with nonlinear claddings 221

R. Driben and B.A. Malomed, Split-step solitons in long fiber links 439

P. Nandakumar, C. Vijayan and Y.V.G.S. Murti, Quantum size effects on the third order optical nonlinearity of CdS quantum dots in Nafion 457

N. Matsuoka, K. Kitaoka, J. Si, K. Fujita and K. Hirao, Second-order nonlinearity and optical image storage in phenyl-silica hybrid films doped with azo-dye chromophore using optical poling technique 467

R.A. Ganeev, A.I. Ryasnyansky, M.K. Kodirov and T. Usmanov, Nonlinear optical characteristics of C_{60} and C_{70} films and solutions 473

L. Torner, J.P. Torres and O. Bang, Robustness of quadratic solitons with periodic gain 479

L. Qian, P.W.E. Smith, M.A. Matin, H. Pinkney, B.J. Robinson and D.A. Thompson, Ultrafast carrier dynamics in InGaAsP grown by He-plasma-assisted epitaxy 487

F. Balzer and H.-G. Rubahn, Interference effects in the optical second harmonic generation from ultrathin alkali films 493